# Manual

## Software Version 3.0 By Steven Peterson

And Robert Blackwell

Digi-View software by Tim Jenison. Digi-View Gold hardware designed by Tim Jenison Digi-View software version 3.0 by Kevin Rouviere

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# FORWARD BY Tim Jenison

With the introduction in Trig. View 3.0. Sew like has achieved the goal we set over non-years upon to deliver the altimate low cost image continue system for the Atriga. There are Digo-View owners to electronistics of the world. You can imagine the many calls and letters we have received asking for now features and improvements. With Digo-View 3.0 we answer these requests by adding the features ment asked for including. Diversions, Halffurities, and a special line but made to name a low.

Digit View 3 0 is powerful because of the Annua. After two years on the market, the Annua remains the best price performance graphics computer available. This is no small accomplishment in this day of over changing technology and with more computers being introduced now than at any other time in fusions. It's clear that the Annua is something special.

The Amuja remains superior to other companies only because of its original design team's vision and any directors to compromise. Their focus gave New Jek the charge to create products like Digs-View Gold and Digs-Paint, by the Jier time is bicory giving and users the wells that have long been available only to the professionals—and without spending \$20,000.

I would like to thank Robert Black well and Steve Peterson for working on the manual and the staff at New Eck for working 60 haar weeks. And to all of you Digs View owners who have contributed in the provisi of New Eck. We will continue to push the envelope and delives break through products that can be done only on the Armas

Tire lension President New leb Inc. May 1988

#### Introduction

What is Digit-View Gold? Digit View Gold in a monthination of hardware and software that enables you to training very high quality order or motochrome images from a video conservato your Amage competer. You can use Digit View Gold to manupulate mach images or a surjety of ways. Once you have the image the way you like a can be sound on doc, transferred to order programs, or even seen around the world to another Amage using a modern.

Color images are captured using a rolor separation process which produces that photograph quality images on your Amige screen. A rolor litter wheel (included with Digi View Gold) or mounted in front of the video centera lens. Three pictures are taken, one through each of the red, green, and blue fisters, thirting which time the subject must be standardy. The Digi View T is software then coincides the separate color images into a lifetime, but color diaptay in any of the Amiga's screen resolution prodes.

Dign-Vacw Gold is a powerful, easy to use system for bringing visitor tenance into your Arman for a warety of applications. Digi-View Gold's image capture and processing expanditions make a an emential part of a complete Arman graphics system. This trainful will tell you have to set up your Dign-View Gold system, take you through some nativestly, and give you thousand into-matter about the tools included in Dign-View Gold.

We begin you'll get a lot of one from joint Utgo-View Gold. Please were nous at New Tek and tell on what you in doing with Frigs View Gold, we'd him to hear from you - leadthest from our owers helps us to create better products.

## How To Use This Manual

If you are totally unharmfur with the Arenga, we recommend that you tend the Annua begins using Engl. View troub. If you're limiting with the Annua, you should find Engl. View Gold quite way to use. Generally, this enumed assumes some familiarity with computers and the Annua in particular.

If you're lake more users, you want to get started right towny. Resultancingly the Getting Searted seed for the four new to broad the Dips View Gold hardware use withware

Once you se done has read the Digitizing Typ, in the Using Digit-View Gold section to help you git bester quality images. Most of the controls in Digit-View Gold have obvious tapicales, as some experimentation will share you fere they work.

If you would to approach Digit View Gold more systematically, the minimal is arranged to that you can work through it for a complete coains in Digit View Gold. The unortal will guide you through the digit tring process. Showing you the powerful features wealiable in Digit View Gold so you can achieve the best proable results.

## Getting Started

#### Equipment Included

Year Digr-View Gold system continue of the Inflowing mem-

Days-View Linid hardware (the small black and).

Color Filter wheel (devides into clear red, green and that quarters)

Color filter reasoning bracker

Diggo View 3.0 m/rway on one (1) 3.57 days

Digi View 5.0 massal

Warranty curl.



Other equipment that you'll need:

Applies 500, 1000 or 2000 estinguise notify at least 5128, of openiory and 1 dark three. Video sameta (thick & white recommended has a calor camera or caracorder play be used).

Placescom (Lighting (you may use incubdescent fighting Wish a color cumms, but (laurescont in better)

Coardal vides cable (for connecting Digt-View Gold to the elden carriers) the cable major have an RCA such for connecting to Digt-View Gold).

Seasons F. F. RS (2)2 gender changes (fix Amoga 1000 mly)

#### Recommended Equipment

The following equipment is not necessary to use Digi View Gold but would make digitizing easier. Gaver or better

Distributed interested filter wheel for Digit Vers, Distall

Copy stand for your video careary (NewTex wells the Ca. H.: Nex appendix A)

Base Band Distribution Amp (so you can have Digi View Gold and the mention oligand out) the canvers at the same time)

#### Hardware Installation

When you have all of the equipment ready, tasks one provided to power to off to your Arrigin and to your video camera and then plug the Digo View Gold unit one the parallel point. If you have a printer booked up to your Arrigin, of a probably plugged into this part, so you will rather need in ampling it or use an RS-232 arrial soutches no book both up as the same time. (NOTE "but must one a Fernale Férnale RS-232 geoder changer between the parallel peri and Digo View Gold if you have an Amiga 1000). After Digo View Gold is properly installed on the parallel port, plug one end of a council radoo cable into the "Video Int" to be on the Uigo View Gold unit, and plug the other and of the cube into the "output" sick on the Uigo Carteria (you may need an adapter of the current has a BNC jack instead of an RC b pack. The Digo View Gold unit uses a standard RCA jack, as do most consumer cameries. Appropriate oblies and adapter may be instead in on electronics supply store, such as Rado Shack. Make store you use video cable, one audio cube. Although the RCA jacks are the same in both saides the video cable is made with 13-chery council cable. which is necessary by pood video resolution.

Attach the color litter when I to the video curvers using the mounting figurest supplied. Most careers have series hales or the easing for a triped mount, which you can use for the mounting tracker. Depending in the camera you be using you may time to be more innovative in tens you attach the mounting tracker—perhaps using type or without in my case, make non-that the roke litter where it in magnitude that the roal green, and blue filters can be promoted fully in form or the camera who. Like the hale in the macker that past the filter in close in possible to the camera lens, without actually touching the tens. Make more the filter is clean by wifning it with a post conton clott.

#### Digi-Druid Sel-up

If you have a Dig. Event recovered filter where tomos the observance to maked with Direct year of search for the Direct Oligination of the Direct Oligination like second names part on year Amage, and Direct View is software recognition the processes of Direct Oligination When you. Direct Oligination and was a second in the Direct Oligination of Direc

#### Software Installation

Turn on that Angga and more the Tigh-Vana Gold date when the provinced his markbands and appears on the success of you have an Angga (000, first more the Russian) date in the internal driver. When he works a postate of the Works such that then must be Digitives Gold disk. When the Works side screen appears, prior to the Digitives Gold disk. When the Works side screen appears, prior to the Digitives Gold disk care and disk to the Kide but ments business. Digitive Gold with their that mist your Armen.

Place that is there, you will not the Pops Vew 3.0 this screen, which will allow you in select the incommon that had went to direction in over places. There are two ways to select a resolution



of all king on one of the gray toward when a release on the right. Community affecting and one of the made matter is a substitute of the region of the residence of the matter of the substitute of the residence of the residence

When you have the resolution that were ware a link made the "Lik" how to per unit bigo View.

1.0. If you want to care the program at this point while in the "Lyn" how to get hack in the Want breeks more

About books in old in back cap copy or Digo View 3 to a case (Digo View 1 to a NOT copy protected), to case your dock to discusped documents. Pair down the Propert reason by bold in down the right names patron. Then many the primary is Propert. Still bold on Down the Cipta names button, move the power down to Dian Described the bottom. Son will be retired in the Workshorten, where you should name a copy or work to go View Guildian. The pick often names in Appendix D1. Proof now on anyone use a copy of Digo View Conduction of the women's Story the original to a labe place were from your temporals.

## Menus

This reference arction descents reach feature of Englissian Colors addressing as forman item and resurse. We recommend that you not increased group of the personal by working thin up in the Tuberial from the Messa section will seem to supplement the information you've earnest from the Tuberial.

#### General Notes

There are these receives in Diggs View. Proved, Digitage and Deminde. All onesis are netrotion by helding down the right mouse button, everying the printer to the top of the screen and painting at the county you want then may not the pointer open until the micro term you want to highlighted. Then referee the button, and that ments must will be surprained. This process of called "million slown a marti.

Whethever the term "chee" or "chek on" is used, if power that you should more the normal power until the tip is retains on the object is borned as in the text and they prove the left income busines. Due come "frag. uncars, to move the means proved until the Up is middle on the object referred to in the lext and then prove the left income bottom and noted to write instrume the number pointer, the slides you've "stubbed" will move its row those the manne panner. Remain the textson when the slides is in the right you ware.

#### Project Menu

New: Polling down not make item cleans the Arraga's memory of any image; committy in Duet-View Gold, which receptors you to start digitating I new image. CAUTION: If was linear i arred the image on the screen before you see New the image will be lose.

Limit: Pall Bown this recurs term to bring in IFF (breecharge Fibe Featura) entages that you've stored on a disk. (IFF title) are a constant format on Autopa graphics programs like DelawePoint or Aegis frames. Any IFF tittage is in the brought into Edge View Gold. When you artistic this term the Estail Requestes will appeal. The respecties take. Entag Fiberators' at the titp and tition there is a black apace with "Name." In grey test. More the pointing as 0 is written the thank apace title. "windows 'I amiliated title (a) operate better the title would be title to be the title windows. The arrow keys will move the current toolst title arrows it there is the modern. Type in the desire number of the disk where the file is and from the filement key to the arrow on the file of the disk in the file of the disk where the file is and from the filement key taken now or filed or the disk in the filement key taken now or filed reports in the number of the holded more free file in the filement key taken now or filed reports in the number. The file will be loaded more from the filement key taken now or filed disk, the prefer is child.



Save: This means then allows you to now approprial traces or an IFI this that can be read by other IFF-comparable programs like they. Paint The same impositive flost you wan in Load IFF appropriate Feelow the same procedure to tryly to limit drive where you want the arisin to be useful and the name you want to the first The name cannot be larger than the window is helps to one names that we trainly recommended. Note: When coving a proton, make user that what you nee on the screen is what you want to not not the disk, the "Save" option cover whatever is displayed on the screen is even been experimentating with the color controls, see. The play " to get the most cutrent parties.

Save RGB: Lo-Rev RGB files are 192K on size, when 32 courtFF transace only 40K, if you think that you 0 want to re-adjust soon mares at a later slave, save the image of an RGB file. You may want to case the image rwise, once of an RCsB file and once or an BT file for our problem programs.

Land Patette: This mean term loads the public associated mills an image. As you'll see later in the Countils mean, you can display your displayed image in 52 others as less. For instance, Elegannic Arts. DeliverVides program uses only it color mages, or you would want your digitized image to be displayed in it colors. Once you've constrained that pursualize 8 color public. You can use the identical public by activities Load Patetle.

Periods If you want to prior your Fligh View Could sure or maps, you this mean men. We will meed to topping the Dign View Gold models from the Aimys's parable pool to play an your printer. CALTUS! make sure may not prose in COE tensor amplinging Gigs. View Gold to order to prior from Dign View Gold, such provide maps to dish, your Dign View Gold, and unnersham Amuga. Limiting the Dign View Gold, mad module and play to your printer make. Then on the printer and their term on your Amusa. Limit Dign View Cold and a so us the major you want to print, then activate the Print Court on Make must use to be your Preferences on the Workbearch disk to the correct power.

Histogramic The vertical (x)) represents the number of panels, and the horizontal represents brightness (left to right its darkent to lightness). Typically used with a video processor for on one, but with Digi frien Golds in agent the suprial. Properly, used the faringroun can sell you if you have recurs fault in the portate, the graph should down 70% or more of business on the raw data vide in a well in partice. Adjusted tradsprain shows over 10 to V = 10 of its states at no or to correct for that particular culton.

Quite Pull down their menu ment covered. Dren Verw Gold and return to the Warthmach. If you haven a named the transporter that screen, this transport will be lost when you that their Verw Gold.

#### Digitize

Bird: Pulling down that patent tiens digetized the real corresponds of the video strage. Make star the test (filter of in from at the tanneys lens before you actions this tiers. The keyworld equivalent is to preso the right Amign key (immediated) right of the space that; and the "1" key timulane outly.

Green: Publics shows that more man asympton the green comprometer or the value comage. Make some the green fuller as in front of the camera from two me you account they don't be largered aquivalent to to press the fight Africa key and the "g" key monthmentals.

Note: Pulling flows this recess used digifined the blue component of the video image. Make turn the blue false is an iron of the context flow before you activate they turn. The key exact equivalent is in press the right furnite key and the "b" key appullationards.

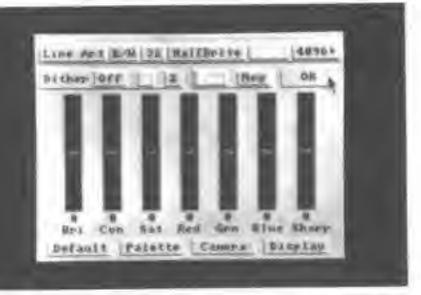
Black and White: If you want to digetize an image in Black and White in him. Art mode one the clear or green filter and curv of the cales from the High View. I direly agreen

for Digi-Denid Owners: Selecting the "Auto" manu option lets you use your Digi-Denid to digitize all three colors one after another without any further manus affection. The keybound equivalent is to press the right Amountkey that the "a." key timultanessarily

#### Controls

Color: Activating the ment from brough up the color dended panel. They may also be claused that the tay bound by presents the right Arraga key and the "L. Into monitorable only. The Mode parties of the control panel determine; have the digitated transport with appear. When two from bring up the control panel. 4000: to highlighted. This means your whom are negliged on means and his the display button in this control panel, the image will appear uning all 4000 colors of the Amige's galactic. This display mode is known as Hold And-Model's (HAM).

The digitized image can above be displayed in 62 colors calcolor brack it with the even 32 colors are always that in bright to the first 32 colors are always that in bright to the first 32 colors are first, are the Paletic ments, or 4006— take called Enhanced Helph And Medify), which was appeared incompared to display higher conductor and norm take down Became 4000 made in botto, use 11 to pel alt of your control interpret not lie way you must them, then display the image to the much shapper with a mode for the best possible growth. There is also a special display made called Lone Art which is for our in capturing high colorant block and white artwork without any informations that which is to our in capturing high colorant block and white artwork without any informations with typical colorant mix Shappers are the only control that work in this mode with typical colorant transfer to the 3 respectively.



List below the Mode panel is the Disber county. Setting the Disber to "1 or "2" with instruct trigs View Gold to each provide of different colors to produce overheadour stander. By Viewing an image with Disber on and then files Ottoer off and his Display again. The difference decold by resultly apparent.

Differing - Differing is the process of managerithms to produce a new apparent color. There are 3 ways to define in Digit-View 3 (). Differ 1 and 2, and alterprises. You can use differ along with sharpness, with the first result being a combination of the two. Typical values for distribution might be 3. 5. The Differ courto gives a pelvily resource with Differ 1 being loss experies and more subtle, and Origin 2 being major involves and being for 3 or less colors. Digit View Could beep smark of over 2 million colors integrably, but Amage a to only adopting differ, distribution to the integrable policy. Typical pictures with contain form of the country of infrared with contain.

The panel directly eight of the Enther committee two balance. The and beg. The For leatent creates a noticeal digenerationing. Activating the Nep balance and then choosing display will create a negative version of the image. Inventory all of the orders. This opening a cache for degreeing phono negatives which can be turned back into profitive.

There are seven visited on the panel tour control Brightness. Upont of Saturation Red. Green, those and shappears. These shalers alread your distinct magnifier a heater partner or partner of special effects. Its many the shalers made the power of manage of the shalers and hold down the left manage button. Drag the shaler to the position you want and release the nature. You if meane that the number of the houses of the shalers have a room 48 to 48. You can record these settings for follow inference.

The best way to learn to use the committee to experiment with their effects on an inspecherphores. The no married to the TV this count increases the record information of the image. Morrow the brightness counts over a lord has marked effects on the image.

Comment Aparts, the country is similar to the country out 1V set. Recommend to country white white blacks thanks and calory point offence Conserve in makes blacks and whites many gray and critical worded out.

Amoration. This soldes here the code committee in EV set. As resonant, the prairie is connected in black and white. At maximum, the collect are intermally recent and corresponds:

More When her high this increases the amount of red in the image, when reduced, the amount of red is diamagnium. At immunium, there is no red in the parties, at intermum, the portion is amountly in Municipality of that

Given When set high, this our covers the absolute of creen in the image, when included the amount of epicor of diminiscent. As minimum, there is no preen in the picture; at maximum, the picture is absolutely of charles of green.

Blue. When set high, the owners the amount of the in the image, while reduced, the amount of blue is distinguished. At only on the period of the period of maximum the politics is controlly in shades of blue.

Sharpwer: Having the county will charge the mage his remark the around of "grain" or "make". Covering the control will reduce grantiness but will been see the amount of "control and see "bandang."

Default. Clicking on the botton resume all the closes on the secural strong.

On This receives the control panel that does not be alongly the product at any new section.

Display. When you've advanced the control panel to your olong, three control will display the picture with the new servings.



#### Palette

This remains normal activation the Palette commod. The palette closes the best 32 colors to displaying the inverse run of the 4000 possible. If you want to have less than a 32 colors transpt to the title indicate in the box. Latertal 32 colors. You if see the number of colors change as you writed the video. Not if also one 11 separate nations move on the colors is appared immediately afternationing the run colors in the runner war we acknow that the Doptan boston are not the Patrice Commod. If the Colors control was will as in detain or defined colors will up the color colors and for the 32 color button control you is not than changed to reflect the new number of colors you in notice that the new number of colors you in account or displaying white the new number of colors.

With would you want to have been from 12 couply Well time can be quite another it was word to bring an IEE morph into a poure program; and have word under their own to about the image. You may confer want to use the point program in a decision Arts. Deliancy who programs insures can contain only A course on programs or course to a colors or tracescopy for the companionality.

Load Palette: Using load patent or any parties kanle in store parties a mance only. You can then use Foreign Palette ments, their opposition on 37 colors, and Duri View Cold will rainstruct the parties in the maded palette. Leve dansate is used by level colors organized only three bit places in made at large

"not can also also be maleralised eather in the potents to create interesting operate effects. From as the other year want to claime and pro- tree left receive formal. The colorised square is not institute that I not occur out of the Red. Green in Blan malers in the right, you'll see the roles above. When you've adjusted the eather in your litting, claim on the French Palerie reserve, and then the Drighty. The images will be refligiously along the pattern colors you've claime. If you sum off the Context course for the Local Context of the Context course are unsertious effects.

Haltheria it you askert milhous from the color countrit menu you will set an indictional 32 color patette reso to the original 32 term photon. These milhousal colors are stackly half do to july to galerie trebers and can only be absent by changing one of the colors in the terginal 32 order patette. For example, or change the color in two 1 cultum 3 to patette 2, you must change the color in the 1 culture 1 or patette 1 Halfford mode always for exactly by colors and can not be treate to have any sea by to subting the patette 10/15 TO AMIGA 1000 CRANERS. Not all Amiga 1000 are capable of displaying graphics in the Extra Halffords mode 48 for colors in the section quarte are capable of displaying graphics in the Extra Halffords made 48 for colors in the section quarte are capable to displaying displaying the first, then you have an Amiga 1000 to one capable of Stafform display



#### Camera

This menu controls the various extracts settings. This mone has no effect when you've already distincted a meture, 40% thought to adjust the Lumera before displaying.

Soon films. The three bases at the tap right of the Caresta Canada are the different scan time you can use with Phys View. This, normal and they I in the Dol sizes made as a social test scan of the subject. This is expecially useful when you have a rive callyed may you think might i said forming a length scan. And the picture quality is easily quite posed with a short scan. The negretal time is useful for every sky displaying, especially with a state subject. For post resides use the slaw scan. If you're using a color video carriers, you should use this sensing every time. Consider a color video carriers have less than the long scan time so that Digs View Gold can do its heat pit us the longs. The above scan takes in operage of four video samples of each financial conduction name and girl you a cleany image.

Picture Title Foll, Harr, and his battern directly below the scan much interes give you the uptons of creating your interes in different stems. The Full battern is the normal picture size, the Ball battern gives you an image, with our hought the dimensions of the normal image. If you arready have an image on the severa from a previous digitaring effect our tite bies command in the Project from a picture from a smaller than normal size picture.

Bucking: This created, at the upper left of the Camera Control, it must be synchronize the camera sugnal with Dight View Gold. If you are a servical earlier of pegales approximately 1 inch-wate on your screen, use the Tracking slider to eliminate it. Adjust the street maybe of the screen.

Width: This slider adjusts the width of the posture that results when you digitize. This is exeful for algebra adjustments to get a picture in fit a sertion with Large movements of this control will give you extending appeals affects.

OR: When you've set the Camera Commit the way you like, a lick on the OE humon in orman to Digi-View Gold.

For Digi-Droid owners. The Move Cal menu liens branes up the screen for calabrating the Digi-Droid's preum as detailed in the Droid's instruction about

#### Tutorial

Experience is an important factor in getting high quality disjected images. In other words, the best way to learn Digi-View Gold is by doing, so this targetal will take you through digitating and adjusting a picture. First, we'll get through the digitating process. Then we'll explore early of the various controls available in Page View Gold, starting with the Camera controls, then the Color exemple and finally the Palette control. Finally, we'll review Digit View Gold's important output capabilities. For purposes of this Timural, we'll assume you have a basic Amaga system, a Panasonic WV (ATD convers), and one CS-1 copy seared other confusional startly be similar enough for the purposes of this Taltorial). If you have my roughle at any part during this Taltorial, you may want to refer to Appendix it to troubleshoot the protein.

## Digitizing

First, let's wall at the Test Image, # I on your Dept View Gold dod. This will be the object of your parental—to get an image as alone to possible to this sample. Make vare your hardware and uniforms are tootalised as described in the Gennin. Startest section. Start your Arings and your Dirty View Gold nottware to described in the Softmane Installation procedure. When you got to the opening Dept View it is serven, one the default settings and clock in the "Oh" box, and Dipt. View Gold will come upon your acreem in a low occount. If your valets careers is not remed in and the cable program into your Dirty View Gold one would see a requester time styn. "No Video Supply Triviary." Clock "Cancel" and you'll see a blank server, if you press the right movine turning the Dirty View Gold memory Gold is properly ployand in the capture in pluggest into the Dirty View Gold and rurned on, and the low cap it off.

Part down Load from the Dropes ment. The Load Ringswiter will appear, showing all of the there is the Ulgr View Gold dish. On that to the right of the falls statues may be moved by cheking on a and draguese is to reseal more nature. Clock on the life nature. "Ten limited." Ten limited. "Ten limited of the nature will appear in the title window. Clock on Load and the file will appear in accept in a tele motioning. This is the "target" for our limited, by the time we've filterhead, you'll have an eman that looks that like must enable servers.

This the Lings-View Gold box and place it index my in front of your video cumera. (We'll use this two an our test subjects to see an through the various criminal that Digs-View Gold offers.) Play the video cathe from the camera but was manual our whatever set up you're asing to view the picture) are that was tent see the live video cathed from the camera. (See the discrime under Manual Set-up for viewing the image on your Arrapa monitor.) If you're asing the CS-1 copy that and Parameter WV (410) comers, adjust the copy mand so that the camera is about 18' from the Oigh View Gold two. Oriens the box so don't for the job the front of the box is on the jett hand side of your manuals, the box just barely fills the entire picture top and buttom, and you can use the New Tell tops on the right hand edge of your street (this means that the log of the box is making on the left-hand ode of the server). We've folled the praise screen with the box so that we don't get my of the trackgrowted in the partier.

Now adjust the camera focus or that the letters are claim and sturp if you are using the Panauman W V (a)() camera; you may need in adjust the Mach Focus often in the fact of the camera to bring the image into focus. (Then the focus in corresp. if a time to check the lighting in the picture very dark of have date seen.) Are there any bright upon "If so, you need to adjust the lighting. Move your algion back and forth and till them or different angles, observing the effects on the picture. You'll see the light and dark spots move as you adjust the lights. Adjust the lights to this there are no bright "washed out" against the picture, and on cark arous are channeled for kept to the very camera of the unage). See the action on United Digst View Gold for page an interaction at wall lightening.

Was should now have the Digo Yesh Gold box property framed (secured and for it you've extent on that in the case, rake the radde that cause) from the current and amplied it from your currents and empty to Digo View Gold unit. Sweeth the promites have to your conspany's exput time Digo-View Cold servent, where you should see you accord pointer. Now let's objective the immae. Provides the red Differ to Good of the current tens treate one that only red it in front of the form. Now puts down according to Digotive metal and watch as the risk component of the partner is digotized. Be careful and to make the Digot View Gold from a the content during

mis process. You'll notice that the massar process becomes a WALL supervised districting in going on. When the provide reappears, you're ready to digrice the given component of the person. Move the green litter to from of the convent term and select Green from the Displace mean. When their I fortished, put the blue filter to front of the less and artest blue from the Digitize mean. Finally, when the blue component is digitized solve Dipply from the Controls mean, and the total 40% relies person with he displayed on the screen INOTE: If was now a Digit Dead meatlest, rement of the above procedure simply poll nown Anto from the Displace mean, and the person will be outcoming alty districted and displayed. The major you have a thin poles may used some adjustment. If you're using a color carners, the energy toy love surprovise juggy. See the Carners Adjustments secreen below for better results.

#### Camera Adjustments

Go to the Controls mean and publidown Catalans. The Canters controls will appear. These settings affect the positions and size of the video image received from the camera, as well as the time it takes to seen an image. If you're using a color camera, solved the door seen and realignizes the image. You'll see a marked improvement in the triage quality. If you have some wary times in the image, use the Tracking and/or Width control to climitate them. Engineer had two registers all volues just to adjust the Tracking control), repeating until you have moved the wavy blood of the image.

The width control will threat out or compress the image, enviring the centrol to the right somethers the image, moving it to the left compresses it. The Position copied moves the image area on the screen. Experiment with these controls to came the image of the Dije-View Gold-bass on the acreen.

#### Using the Color Controls

These controls are the heart of Digo View Gold, giving you the power in manipulate the image in a variety of ways. First of all, we'll use the controls to got a sharp image is to color-true to the original, then we'll try wome of the special effects possible.

Pull down Color from the Control menu and the color control will appear. You'll remove that along the top are 6 hactom. Line Art., H'W (black & white). 32 (for any number of colors from 2 to 32; see the Palene Controls), Halfbrid (for 64 older display). 4090 (mediant number of colors in HAM mode), and 4096 (New Yes's Enhanced HAM mode, see Appendix A for a further explanation). The 4096 + button is highlighted as the depart setting. Click on 4096, then click Display. The cursor will say "WALT." and then you'll notice a line naming down the survey. Which particularly the left hand edge where the letters are, you can see them becoming furzier in the line passers down the screen. Now call up the Color controls again. When alluming these controls, it's a good idea to do all of your adjustments while in "4/866" mode, since Digi View Doll reprocesses the information faster this way. When you've got the colors where you man them, switch to "4/966 s." and re-dusplay for the less results.

For this tunerial, the most important controls are the selven student that take up most of the calor controls. Bracktown, Control. Shapmen, Bed. Gress, Hise and Shapmen. The red green and blue student will adjust the bus of the image. The each one of these stident individually to use their effect by serving the stident in placen minut. It and then clicking Display how it now. But while most of those adjustments make the potent of the image never further own, from the

colors of the Dign-View Gold box, there is one that yets not closer. Set that dider and then adjust the other two color illiders, not at time, to see if you get any closer to two Dign-View Gold box color. This trait and error process will get you the most exact color, and you'll also begin to develop your entity colors and what adjustments give you the desired residn.

If the crimealant healt begin example my boosting the annumen countil, which will give you want impose charles of colors on county. The strapped countil, when raised slightly will make the letters on the openin sport more crists if, on the other hand, you want a monther appearance to the intract. For would lower the strappeds countil.

#### Using the Palette Controls

The Potential arranged allows you in march the calors used in an image to a pre-existing proform. Ween you see working with other Arrang programs that use \$2 or fewer colors, you may want to digitize a series of pictures in the same painting. Or perhaps you want to use fewer colors in a picture than \$2, to allow by some "extra" colors for tides. Or you may want to take up much less your on disk by saving an image in only the other instead of 400n. The painting outputs allow all of these upmass.

For the purpose at the totomal, we'll remain the total we've degitted from the colors. Leave the settings in the color controls where they were at the end of the last mortal. Click on "32" in the Mode section of the color controls, then click on "Paleste: at the bottom of the color controls. This takes you to the Paleste controls on the Controls mental. This takes you to the Paleste controls of the color controls mental. This takes you to the fallest at the forest left of your creen that tays "32 colors" as you move it, points that the number of colors changes to the right, and above a marker moves on the paleste. Move the shall the number of colors changes to the right, and above a marker moves on the paleste. Move the shall the number of colors changes to the right, and above a marker moves on the paleste. Move the shall the paleste in the marge in only 16 colors. If you choose "Freeze Paleste". Dig! View Gold will use the paleste shown to create the image. Click on "display", and in a number you'll nee the marge displayed in 16 colors. You'll notice that Dig! View Gold was a technique called "disberring" massing pixels of defferent colors) to produce the impression of move than 16 colors.

### Input and Output

Now that you have a final image, it's time to cave the image on a disk to that you can use it again. Go to the Project menu and pall slown Save. A requester will appear that shows your the files on the internal disk strive of your Arman Leafled dfor.) At this point, you can save your tiles on your Digo. Use Could disk, or on a superste disa disk. Put your data disk in your second disk drive and clock on the square baseled dff!: Clock in the File window and a cursor will appear Type this more you want to use for the file and then click Sive. The picture will be saved under the name you're given. Later on, you can or all that image in another imperation and a Digo-Paint. See the Menus section for traine information about saving different file types.

# Using Digi-View Gold

#### Tips on Digitizing

Lighting: The best lighting set up for digitization with Digit View Gold in fluorescent light on the CS-11, copy stand. There are several involves of Harrison lights that will plug directly light the light workers on the CS-11, and disabilities would be would be not been hardware time. When digitizing 3-10 religions, you will immediate the or will be to the light. If you are not however, you may get distincted enforcers see blue or yellow) patches in the image. If you don't use readen light your image (stay turn on grainy, Arways position your implicit or reduce the effects of alone on your image.

Motion: If is very important that high both the patients and the object contain motionism daming the digitating process. Wasty lines of an out of local back are a unit along that amost the transition in fauther than two of the transition of the camera is furtaned occurring to the tripod or copy stand and be careful not in basis the camera when portion the filter wheer. The use of Digit Direct greatly reduces the chances of motion affecting your image. NOTTE you can check to use if your digitizing survey is moving during the digitizing process by half way tilling a place with water and acting it where your subject usually rests. Which capitally for any ripples amond to people with only, my

Grain: Some camerus preduce grainier pierures than before. Lawering the Sharpton control will reduce the grain. This is also a set at an the 4000 color mode to reduce the "content." When thing the 32 color mode, however, it's tantality a good idea to RAESO me Sharpton control. Try setting a at about 5n. This increases the directing and appear on the books of color than sometimes appear in images with 32 or fewer colors. Law tigge conditions can also give your triange a grainy book. In this case use the Slow Scan mode for tester results.

Hower than 32 colors: If you are regulating a politic rose 32 colors or lest, my to have a buckground behind the subject that has as few colors as prosable. This amounts that Digit h'ion-Gold will use the facility for the voltages of the purione, and see "less up" two many enters in the duplication of a funkground. For interact, unless you really ware a picture frame as part of your digitized picture, take the anapolice out of the frame before digitizing or action the conserts on the frame is not in the image.

Random Sync: Some overpensive black A white security transfers may problem what is called "random sync" or "random miterianc. "You can't really left by locking at a tise mention whether you've getting Z I interface or random sync. Unfortunately, Orgo Verw Cooks and can domestyre out don't get along. Digi-View Gold will go about and dignize transfers sync a don't be result will exhibit a way; or jugged quality throughout the outine picture, most apparent to horizontal lines or edge.

If you're in doubt about your carters's type, play it is and digitize a picture. If you get "the bageles", it's probably random sync. Clan't give up hope. Heages. Some connerse, such in the humanic WV-1410 have a switch made to change from handom type to 2.1 countage.

A problem related to the random over suppose can occur when a camera does have 2.5 implace but does not must the RA (70 statistants. Using such a camera you may get a parent formation among a pagetes in an otherwise named picture. Use the Tracking count in chereol does the described in the Memory section.)

#### Special Effects

You can get some very interesting effects with Digs View Cold by disregarding the advice about loss to get the rees pacture. Play with the Colds Coward antition. Moving some of the sliders to automorp greates to ange, special effects. For instance, receiping the Control Under to the top in black de white mode gives you eather pure black or juin white, with no gray, in 32 color mode, you if get once 8 colors.

Experiment with other variations. Try using the wring color fallow, or fallow of other colors than provided. Change the subject and rail of the fallor between above. Most the comets of the subject alongs the scan. (main modern art)

One interesting appeal effect was deserved by an emergening over 3-D pictures can be made by usup the Red and Blue deplaces furctions at alignify different camera angle. The requiring image to their occurs through streamy 1-D places or by broking through the red and blue actions of the color blue. It yes want to be 3-D pictures, here's the procedure.

Aim the carses at some three dimensional object. Remove the falter wheel or select the clear falter. The Blue Digitize move the content there or man include to the right (keeping it separely aimed at the object), and unless Red Digitize. The the Color County to same the Red and Blue trates to minimum. You may also have in large the Brightness alignith. Select 40% display View the resulting many with the blue falter over your right and the red (one over your right enter).

#### Applications

Digo Vera Good is the period was to create "rough sketches!" of artwest. If you're having insuble serving 4 scarring point for a week, it air, should an object and impact it into your paint program. If you're making a place of commercial art for a resear, you may that it useful to itigate a package or a proof of object for on all layout. Then with an appropriate pure program such to Digo Pater the 4000 color paint program from New Yek), you can add titles or other probabilishments.

Animation, for DefactVideo can be decided by using Dign View Gold in digitize several different view, of up object and remapping the image man it calms. The color palette algorithms in Dign View Gold are excellent—to example, try taking the King Till seage from DefacePaint and remapping it into 8 colors for DefaceVideo. You'll be accused at the results

Wenderfüll diele shows like New leb's Derrot Reci #1 can be created with Digs Vew Gold images and appropriate graphics influence like Digs Plant, and soon to be released Digs F/X

Thank you for purchasing Digit View! The Annay offers the potential to a new world of applications of digitation pictures. We know you'll find many new uses for Digit View Gold and we hope you'll take the time to write to us and let us know how you're using our products failed.

## Troubleshooting Questions and Answers

I am using the Forgannic WV-1410 systems, but I still mem to get the renders type pages. The WV-1410 has a random sync 2-1 mediate would which the factory present to random sync. Topolde year WV-1410-3 I interface, stopply remove the foreign cover (fautened with one stope at the front of the foreign cover (fautened with one stope at the front of the foreign which located on the left circuit bound close to the fallow suspen fact from LL notice. NOTE: ALWAYS UNITE MC YOUR CAMERA BEFORE OPENING IT.

I see a horroughest type marginests position in my district former. What crucks that The came of that is usually a spoond-hoop, is granted loop can secur when more than one of the component in courtest system are playgral and your loose content with a grounded (three puring) play. The computer is the ordy component that devold be grounded, all other components, especially the camera, should be im-proceeded by using a 1 to 2 prong adapter on their power cords.

My Digo View Gold thatger become stretched as they are directized from test in right across the across. For example, a circulate observability up trettes, this on egg on 10 mb. What is errors? Thus is consider a sign of problem in some parallel poer. Specifically, the problem is in the 1920 CTA chip that evident the poer. This chip is variously fire any removal and can be replaced by any authorized Analysi dealer for about \$20,00. NOTE: Your private may function particular addressive 8520, but a complex periphenal like Digi. View Gold will alert you to any problem right away.

## Appendix A: Optional Equipment

New Tex setts several products that make digniting with Dign-View Gold cover and more professorial. For more information about these products and New Feb Denny Recht, New Feb Times and "The Crist Friends of New Feb Clob" write on at 115 W. Crist: Surret Report, KS 66603 or for orders any cold (658) 845-8934, 9-n central time. Manufactured from Jenday

Panamotic WV-1410 Camera: Pars camera honores very high resolution: therees than 550 lines; a distrible yidions rate which results bern-in; and a mechanical focus adjustment for a Juli range of micro focusing. Convenient positional belief for the files which bracket and our CS-10, copy stand make this camera the most complete solution for digitizing needs. Core and all necessary cables included. Dur Price: \$279.98

CS-11. Cupy Stand: The best way to move your camers for digitizing that sobsects that phenographs). Our CS-(1, copy stand gives you 2 fully adjustable lights and vertical resum with adjustable brackets for your camera. Sotrup is easy and adjustments are a snap. Our Price: \$74.95.

**Eigi-Dreid:** Automate your Engl. View Gold system with Eigs Droid. This special complian controlled motor and filter wheel controlled motor and filter wheel controlled nation substantially drives your filter wheel while you capture the red, green and blue images. **Dur Price:** \$79.95

Digi-Paint: The best setting Armya paint program—without of the "Krock Your Social-Off" award from Annua World. In it the 405t, color all-at once paint program! Break the 52 color barrier and use the enture Annua paints on screen at one time. Special features include shading, timing and blending, examplete drawing tools and peers. Our Price: \$59,95

One way to modifier the live sideo is with the Radio Shack [#15-1104] ( % ) Haseband Distribution Arop and the Arriga monitor. Plug the video camera into the input pack on the arrigand plug the monitor and the Engli View gold into one output jack each. Then sumply switch the monitor between competite to view the tive video and RGB (to side the digitared empet).

# Appendix B: Installing Digi-View Gold on a Hard Drive

Installing Digs View on your hand dod, done yaw to done in one of two ways.

- (i) From the Walkberich sciren open the Oigi View Gold disk usin and thag the icoms from the Digi View Gold window unit any empty devicer in your hard thisk.
- From CLI copy the files from the Digit View Gold disk to any amply drawer in the hard drawe.

## Appendix C: An Explanation of HAM Mode

The Hold And Aliebity (HAM) slopping mode not the "Armiga uses six bit planes to doption images. That means that each posel spicture element some dut on the sensiti uses 5 bits to determine to color. If the first 2 has are -00', the remaining, a bury groups a value of 0 to 15 mil formery) are used in look agrees must veryles in the color table. This grows you fit values from the principle 40% colors available, which Digo View Gold men in choose the hear 18 colors in the Color Palette to reduce the amount of "Tringing" Luch color has 4 bits worth of red. green and filed information, thus, each color has a Keil value from that 15, a Green value friend to 15 and at Billian haisen from U. ton 1.5.

If the first two bett of a green poor see 0), the posts too the name color as the pasel in its removed artifety example that that four two case be unest in replace the red value of that pixel. If the First two bits are "ID" the last liver live replace the green value, and if the first two bits are "11", the last from bits veplace the blue value.

The effect of all this is that you can dispuse all 409n colors on the septem to ence, though you Can't go brom black fred 0, green 0, blue 0 to whose (mil 1) green 1), blue 15) in one pixel, it takes three gracili to make that transition, since you can only modify one of the RCIB values for each pase. The transition would take five parels on the arrive. The ferr pass in RGB is in it; the second pose in MOH 15 0-0; the strind pixel in WGIs (3-15-0) the linearth pixel in RGII 15-15-15 (white). HOWEVEIL, the ability of Digo-View Gold house the 10 color Color Pulette means that ky 16 of the cokes, that color can be immediately substituted anywhere on the screen without the transition and described. This technique is what gives Digi View Gold its exceptionally Mary HAM images.

## Appendix D: Disk Copying and Formatting

Remove the Worthersch stak from your internal drive and put in a blank disk. The icon will appear on the Workbeach tuneled "DFO BAD." Move the powerer to the disk labeled Digi-View Gold press the left mouse faction, and doug the resulting disk down to the tiple labeled DF-(I.BAT), and release the button. A requester with come up using you to replace the Workbeach tipk in any drive. Posts the busion next to the internal drive to remove the disk, and much year Workberch disk again: A tequester will appear asking you to par Digo View Gold in drive DF1 rise second drive: where the disk already is and the destination disk (your blank disk) to DFO. Remove the Workbeach disk after the red disk drive light has stopped and pas in the blank did. Point to the Continue button in the requester and persis the left masse button. Your Digi-View Gold disk is now being coping. When the disk copy is finished, remove the copy and label it appropriately. You should always title the copy instead of your original thak to aread any takeh begannih daw emaldong

# Appendix E. Specifications

## Digi-View 3.0 Specifications

## Screen Resolution:

## NTSC:

Number of Critics	Screen Revolution on Piness		
2-32, 64, 4996	(37) or 352 or 1841 = (30) or 340 (420 or 152 or 384) = (400 or 480)		
2-16	(640 or 704 or 768) is (200 or 240) (640 or 704 or 768) is (400 or 400)		

Note on minutesy requirements: His Res, its presum makes require up to 2 regulates of more-

#### Digitteing:

21 birs per pour! (2.1 million colors) renoieriss

#### File Formui:

Read and write New Yor, IV Oles

Read and write IFF lifes

#### Image Processing Used in Digi-View Gold:

Enhanced HAM Mode (high quality 4096 colors)

Control red, green, blue, contrast, brightness, saturation and sharpsess.

Infinitely Adjustable HuPass and Live Pass Spatial February (Convention)

Automatic Histogram Slide and Stretch

Automico Coice Temperature Composization

Adaptive Palenti Sekution

Edge-detection

Convert images between michalisms

Interstitual Line and Pacel Synthesis

and/or Pixel and Line Averaging

Digetiae to specific pulettes

Dither control

Positive or organive majors

Control number of colors or image

# Appendix F: RGB and IP Files

The heart of Digs View Gold is a precision studies to digital converter. Immed of the high speed 4-bit (lash converters found to many video digitizers, Digi-View Gold uses a dower more accurate successive approximation type converter along with a low-point sample-and hold amplifier. The result is an extremely faithful convertion of the original unalog video argual hold amplifier. This samples. All 7-bits are stored in non-throughout the manipulation process. In online each joint in 7-bits per permany units, or 21-bits, or over 2 million shades. This extra accuracy is necessary for processing the image for display, for example to enhance courast, sharpeous or color. This information is available for use outside the Digi-View information via rise RGBBF or IP files. RGBBFF files are somilar to standard IFF II BM files. An owns chank, called DGVW commins the openful panel settings at the time the image was used. Note that the sentings have so effect on the data world in the body of the file. These numbers are always the examples as mention from the digitizer. If you examine the file transfer, you will notice that the image depth is specified at 21 planes. All 21 planes of each scan line are stored together before proceeding to the next lower line. The order of the planes is an follow:

occentific to the un'ti	Waste over
Red	bit fi
Circein	60. E.
Blue	htt 6
Red	96.5
Green	Bit-5
Blue	bit 5
Red	Det 0
Blue	but O
Green	bit O
Standard Byrefton (	ron-encodin

Standard by reform from proceeding to used to compress the RGBIFF files. See "EA IFF RS Standard for Interchange Format Files," available from Commodiste-Annga, IP files use a simplified file structure for those who want to transposite the picture that without the overhead of decompressing and converting birplane to byte-per-pasel format. To save an image in the IP format, press function keys F1 or F2. F1 saves only the red stray, for measurement F2 saves all three arrays in the following order. Red. Green, Bloc. Format is byte per-pixel starting with the upper left corner and going to the right. In the pase of 320 × 200 images, the first \$20 bytes in the file represent the Red component of the top line of the image. The second 320 bytes represents the Red component of the second line of the image. The first 64 (xx) bytes contains the entire Red array. Byte 64 (00) would be the Green component of the upper left pixel, and so on Note the LSB of each byte is zero. IP (they can get rather large, A 640 × 400 (Pt tile requires 76%), or already one entire disk. Hi-Res overscan files can be too large to even it on one disk!